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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ramnarayan *et al.*

Serial No.: 09/704,362

Confirmation No.: 4748

Filed: November 1, 2000

For: **USE OF COMPUTATIONALLY DERIVED  
PROTEIN STRUCTURES OF GENETIC  
POLYMORPHISMS IN  
PHARMACOGENOMICS FOR DRUG  
DESIGN AND CLINICAL APPLICATIONS**

Art Unit: 1631

Examiner: Brusca, J.

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Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Sir:

Transmitted herewith are an Amendment and Response responsive to the Office Action mailed August 13, 2002, a Supplemental Information Disclosure Statement (SIDS); Form PTO-1449 (1 page), cited references, and a check for \$645 for a three-month extension of time (\$465) by small entity and the SIDS filing fee (\$180) for filing in connection with the above-identified application. If a Petition for extension of time is needed, this paper is to be considered such Petition.



The Commissioner is hereby authorized to charge this fee and any fees, including the fee for the extension of time, if the above noted amount is incorrect, that may be due in connection with this and the attached papers or with this application during its entire pendency to Deposit Account No. 50-1213 (or Deposit Account No. 08-1641). A duplicate of this sheet is enclosed.

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Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie Seidman  
Reg. No. 33,779

Attorney Dkt. No. 24737-1906B

Address all correspondence to:

HELLER EHRMAN WHITE & McAULIFFE LLP

4350 La Jolla Village Drive, 7th Floor

San Diego, CA 92122-1246

Telephone: (858) 450-8400

Facsimile: (858) 587-5360

EMAIL: sseidman@hewm.com



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ATTACHMENTS TO AMENDMENT RESPONSIVE TO OFFICE ACTION

The following attachments are provided:

(1) A Supplemental Information Disclosure Statement and Form PTO-1449  
(1 page) making of record art cited in the Response; and

(2) Copies of the following documents

Osguthorpe, "Improved *Ab Initio* Predictions with a Simplified, Flexible  
Geometry Model," *Proteins: Structure, Function, and Genetics* Suppl 3  
(November 9, 1999) 186-193;

Westhead and Thornton "Protein structure prediction," *Curr Opin in  
Biotechnology* (1998) 9:383-389, ;

Eisenhaber *et al.* "Protein structure prediction: recognition of primary,  
secondary, and tertiary structural features from amino acid sequence," *Critical  
Rev. in Biochem and Mol. Biol.* (1995) 30:1-94;

Jones, "Successful *ab initio* prediction of the tertiary structure of NK-  
Lysin using multiple sequences and recognized supersecondary structural  
motifs," *Proteins: Structure, function, and Genetics*, Suppl 1 (1997) 185-191;

**U.S.S.N. 09/704,362**  
**RAMNARAYAN *ET AL.***  
**ATTACHMENTS TO AMENDMENT**

Samudrala *et al.*, "Ab initio protein structure prediction using a combined hierarchical approach," Proteins: Structure, function, and Genetics Suppl 3 (1999) 194-198;

Dunbrack *et al.* "Meeting review: the Second Meeting on the Critical Assessment of Techniques for Protein Structure Prediction (CASP2), Asilomar, California, December 13-16, 1996," Folding and Design (1997) R27-R42; and

de Dios *et al.* "Secondary and Tertiary Structural Effects on Protein NMR Chemical Shifts: An ab Initio Approach," Science (1993) 260:1491-1496.

U.S. Patent No. 5,736,509 (April 7, 1998)